

United States Government

Carlsbad Field Office
Carlsbad, New Mexico 88221

memorandum



DATE: 12 MAR 2003

REPLY TO
ATTN OF: CBFO:NTP:KWW:IW:03-1334:UFC:5822

SUBJECT: Initial Certification of Central Characterization Project at Nevada Test Site

TO: Kathleen A. Carlson, Manager, Nevada Operations Office
Steven Warren, General Manager, Washington TRU Solutions

The Carlsbad Field Office (CBFO) has completed the initial certification audit of the Central Characterization Project (CCP) TRU waste program deployed at the Nevada Test Site (NTS). Audit A-02-15 was conducted at NTS September 23-27, 2002. The audit team determined that the CCP technical and quality assurance programs were in compliance with the "Waste Analysis Plan" (WAP) of the *WIPP Hazardous Waste Facility Permit* (HWFP), the *Quality Assurance Program Document* (QAPD), the *CH Transuranic Waste Acceptance Criteria for the Waste Isolation Pilot Plant* (WIPP CH-WAC), the *TRUPACT-II Authorized Methods for Payload Control* (TRAMPAC) and other CBFO requirements and standards.

Based on the results of audit A-02-15 the CBFO is granting the CCP authority for certification, characterization, and transportation of contact-handled debris waste located at the NTS. See the attachments to this memorandum for the complete lists of certified processes, procedures, documents, and systems.

TRU waste characterization, certification, or transportation using significantly revised or new processes, procedures, or systems must be evaluated by the CBFO prior to their implementation.

A handwritten signature in black ink, reading 'Inés Triay'.

Dr. Inés R. Triay
Manager

Attachments

030322



cc w/attachments:

K. Watson, CBFO
A. Holland, CBFO
D. Miehl, CBFO
C. Zvonar, CBFO
A. Colarusso, DOE-NV
J. Norton, DOE-NV
R. Lahoud, NTS
F. Sharif, WTS
T. Hedahl, WTS
C. Fesmire, WTS
A. Fisher, WTS
J. Stroble, WTS
W. Weyerman, WTS
B. Walker, EEG
F. Marcinowski, EPA
R. Joglekar, EPA
E. Feltcorn, EPA
S. Zappe, NMED
J. Bennett, WTS
D. Standiford, WTS
M. Strum, WTS
P. Roush, WIPP Operating Record
L. Greene, WRES
E. Bradford, CTAC
T. Bowden, CTAC
CBFO M&RC

CENTRAL CHARACTERIZATION PROJECT AT NEVADA TEST SITE CERTIFICATION PROGRAM STATUS

The CBFO Office of the National TRU Program Manager and Quality Assurance Manager have evaluated the documentation supporting the compliance of the CCP TRU waste program deployed at the NTS. Based on the results of Audit A-02-15, the recommendation to the CBFO Manager is that authority be granted for certification, characterization, and transportation of contact-handled debris waste located at the NTS. Attachments 2 and 3 contain complete lists of all certified procedures and equipment used by the CCP for the activities at NTS. The following processes are currently approved:

- Acceptable knowledge
- Headspace gas sampling and analysis (single-sample manifold) - PDP expires May 3, 2003
- Non-destructive assay using a segmented gamma scanner – PDP expires October 6, 2003
- Real-time radiography (RTR)
- Transportation
- Visual examination (VE) (QC check on RTR or VE in lieu of RTR)

STATUS

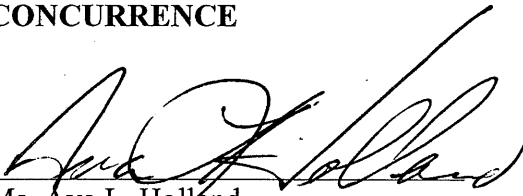
- All program elements remain complete.
- The following site documents are current and demonstrate how the CCP complies with the CBFO requirements.
 - ❑ **QAPjP – CCP-PO-001, Revision 5 - CCP Transuranic Waste Characterization Quality Assurance Project Plan** (Approved February 5, 2003 – CBFO:NTP:KWW:03-1072:UFC-5800)
 - ❑ **WCP - CCP-PO-002, Revision 5 - CCP Transuranic Waste Certification Plan** (Approved February 11, 2003 - CBFO:NTP:KWW:03-1218:UFC-5800)
 - ❑ **QAP - Section 4.0 of CCP-PO-002**
 - ❑ **TRAMPAC – CCP-PO-003, Revision 4, CCP TRUPACT-II Authorized Method for Payload Control** (Approved February 11, 2003 - CBFO:NTP:KWW:03-1204:UFC-5800)
 - ❑ Certified Systems - see attachment 2 for the complete list of certified systems used by the CCP at the NTS
 - ❑ Standard operating procedures - see attachment 3 for the complete list of certified CCP procedures used at the NTS
- CCP participated in the following performance demonstration programs (PDPs):
 - ❑ **NDA PDP** - NDA PDP participation was satisfactory in cycle 9A for the segmented gamma scanner (CBFO:NTP:MRB:VW:02-3042:UFC:5822 dated October 7, 2002)
 - ❑ **HSG PDP** - Participation was satisfactory in cycle 16A for GC/MS (CBFO:NTP:MB:VW:02-2594 dated June 5, 2002 – expires May 3, 2003)
- CBFO completed the initial certification audit (A-02-15) on September 27, 2002 and issued the report to the NTS and the CCP on October 18, 2002. All CARs were closed and the Final Audit Report was issued to NMED on November 25, 2002. The CCP TRU waste program activities at NTS were determined to be in compliance with CBFO requirements.
- The EPA approved the CCP characterization activities for contact-handled debris waste at the NTS on December 13, 2002 (Inspection Report No. EPA-NTS-CCP-09.02-8) and the QA program for debris waste in EPA letter dated January 3, 2003.

- The NMED approved Final Audit Report A-02-15 on February 18, 2003. The NMED approved the CCP characterization activities for contact-handled debris waste at the NTS.
- There are no open CARs associated with A-02-15.

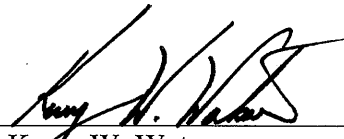
RECOMMENDATION

The recommendation to the CBFO Manager is to grant the CCP authority for certification, characterization and transportation of contact-handled debris waste located at the NTS. Attachments 2 and 3 list the systems and procedures that constitute the bounds of this authority.

CONCURRENCE


Ms. Ava L. Holland
CBFO Quality Assurance Manager

3/12/03
Date


Mr. Kerry W. Watson
CBFO Assistant Manager
National TRU Program

3/11/03
Date

CENTRAL CHARACTERIZATION PROJECT LIST OF CERTIFIED EQUIPMENT AT NTS

WIPP WWIS #	Site Equipment # or Title	Description	Components	Software
Headspace Gas				
7HG1	NUCFIL HSG	NUCFIL headspace gas system – VOCs and hydrogen and methane analysis	Analytical system consisting of: <ul style="list-style-type: none"> <input type="checkbox"/> (2) GC/MS <input type="checkbox"/> GC/MS interface <input type="checkbox"/> Flame ionization detector (FID) <input type="checkbox"/> Thermal conductivity detector <input type="checkbox"/> Vacuum pumps Drum sampling/venting system consisting of: <ul style="list-style-type: none"> <input type="checkbox"/> Drum cabinet <input type="checkbox"/> Glove box <input type="checkbox"/> Air filtration system <input type="checkbox"/> Power head subassembly <input type="checkbox"/> PLC controller 	<ul style="list-style-type: none"> <input type="checkbox"/> Saturn GC/MS Workstation NUCFIL <input type="checkbox"/> Programmable logic control software <input type="checkbox"/> HSG spreadsheet test (UCL₉₀) calculations <input type="checkbox"/> Batch Data Report template
Non-destructive Assay				
7SG1	MCS SGS	Mobile Characterization Systems (MCS) Segmented Gamma Scanner	<ul style="list-style-type: none"> <input type="checkbox"/> Assay chamber with motor driven turntable <input type="checkbox"/> Ba 133 gamma ray transmission source <input type="checkbox"/> SeGe and LeGe detectors <input type="checkbox"/> Analysis equipment <input type="checkbox"/> Drum Conveyor System with jib crane 	<ul style="list-style-type: none"> <input type="checkbox"/> Canberra Can Scanner
Non-destructive Examination				
7RR1	MCS RTR-5	Real-time Radiography Mobile Characterization System's RTR-5 [built by VJ Technologies] – 55 gallon drums	<ul style="list-style-type: none"> <input type="checkbox"/> Shielded x-ray enclosure with a hydraulic drum loading door and manually opened personnel door <input type="checkbox"/> Conveyor cart including drum manipulation equipment <input type="checkbox"/> X-ray imaging system including x-ray tube, image intensifier, and video camera <input type="checkbox"/> Video/audio recording equipment <input type="checkbox"/> Mobile platform 	

CENTRAL CHARACTERIZATION PROJECT LIST OF CERTIFIED PROCEDURES AT NTS

No.	Procedure Number/Rev	DOCUMENT TITLE
1.		Bechtel Nevada, NTS Statement of Work for Characterization of NTS TRU Waste
2.	CCP-PO-001	CCP Transuranic Waste Quality Assurance Project Plan
3.	CCP-PO-002	CCP Transuranic Waste Certification Plan
4.	CCP-PO-003	CCP TRUPACT-II Authorized Methods for Payload Control
5.	CCP-PO-008	CCP Quality Assurance Administrative Program
6.	CCP-PO-009	CCP/NTS Interface Document
7.	CCP-QP-001	CCP Graded Approach
8.	CCP-QP-002	CCP Training and Qualification Plan
9.	CCP-QP-004	CCP Corrective Action Management
10.	CCP-QP-005	CCP TRU Nonconforming Item Reporting and Control
11.	CCP-QP-006	CCP Corrective Action Reporting and Control
12.	CCP-QP-008	CCP Records Management
13.	CCP-QP-009	CCP Work Control Process
14.	CCP-QP-010	CCP Document Preparation and Approval
15.	CCP-QP-011	CCP Notebooks & Logbooks
16.	CCP-QP-013	CCP QAPD Matrix
17.	CCP-QP-015	CCP Procurement
18.	CCP-QP-016	CCP Control of Measuring, Testing, and Data Collection Equipment
19.	CCP-QP-017	CCP Identification and Control of Items
20.	CCP-QP-018	CCP Management Assessments
21.	CCP-QP-019	CCP Quality Assurance Reporting to Management
22.	CCP-QP-020	CCP Independent Assessments
23.	CCP-QP-021	CCP Surveillance Program
24.	CCP-QP-022	CCP TRU Software Quality Assurance
25.	CCP-QP-023	CCP Handling, Storage, and Shipping
26.	CCP-QP-024	CCP Certification of CCP Audit Personnel
27.	CCP-QP-026	CCP Inspection Control
28.	CCP-QP-027	CCP Test Control
29.	CCP-QP-028	CCP Records Filing, Inventorying, Scheduling, and Dispositioning
30.	CCP-TP-001	CCP Project Level Data Validation and Verification
31.	CCP-TP-002	CCP Reconciliation of DQOs and Reporting Characterization Data
32.	CCP-TP-003	CCP Sampling Design and Data Analysis for RCRA Characterization
33.	CCP-TP-005	CCP Acceptable Knowledge Documentation
34.	CCP-TP-007	CCP Single Sample Manifold Headspace Gas Sampling and Analysis Procedure
35.	CCP-TP-009	CCP Single Sample Manifold Data Handling Procedure
36.	CCP-TP-028	CCP Radiographic Test and Training Drum Requirements
37.	CCP-TP-029	CCP Single-Sample Manifold Headspace Gas Sampling and Analysis Methods and Equipment Calibration
38.	CCP-TP-030	CCP WWIS Data Entry and TRU Waste Certification
39.	CCP-TP-032	CCP Single Sample Manifold Data Validation Procedure
40.	CCP-TP-045	CCP RTR #5 Radiography Inspection Operating Procedure
41.	CCP-TP-050	CCP Mobile Segmented Gamma Scanner Calibration Procedure
42.	CCP-TP-051	CCP Mobile Segmented Gamma Scanner Operation
43.	CCP-TP-052	CCP Mobile Segmented Gamma Scanner Data Reviewing, Validating, and Reporting
44.	CCP-TP-056	CCP HSG Performance Demonstration Plan
45.	CCP-TP-058	CCP NDA Performance Demonstration Plan
46.	CCP-TP-061	CCP TRU Waste Container Inspection and Control at NTS
47.	CCP-TP-062	CCP TRU Waste Examination, Segregation, and Repacking at the NTS WEF